

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/041810 A3

(51) International Patent Classification⁷: **A61M 25/10**

(74) Agents: **SANFORD T. COLB & CO.** et al.; P.O. Box 2273, 76122 Rehovot (IL).

(21) International Application Number:
PCT/IL2004/001002

(22) International Filing Date:
2 November 2004 (02.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/517,213 3 November 2003 (03.11.2003) US
60/607,064 2 September 2004 (02.09.2004) US

(71) Applicant (for all designated States except US): **B-BAL-
LOON LTD.** [IL/IL]; P.O. Box 3, 44837 Ariel (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BEN-MUVHAR,**
Shmuel [IL/IL]; 10815 Kibbutz Tirat Zvi (IL). **MILLER,**
Amir [IL/IL]; 41 Ha'nesach Street, 47310 Ramat-Hasharon
(IL).

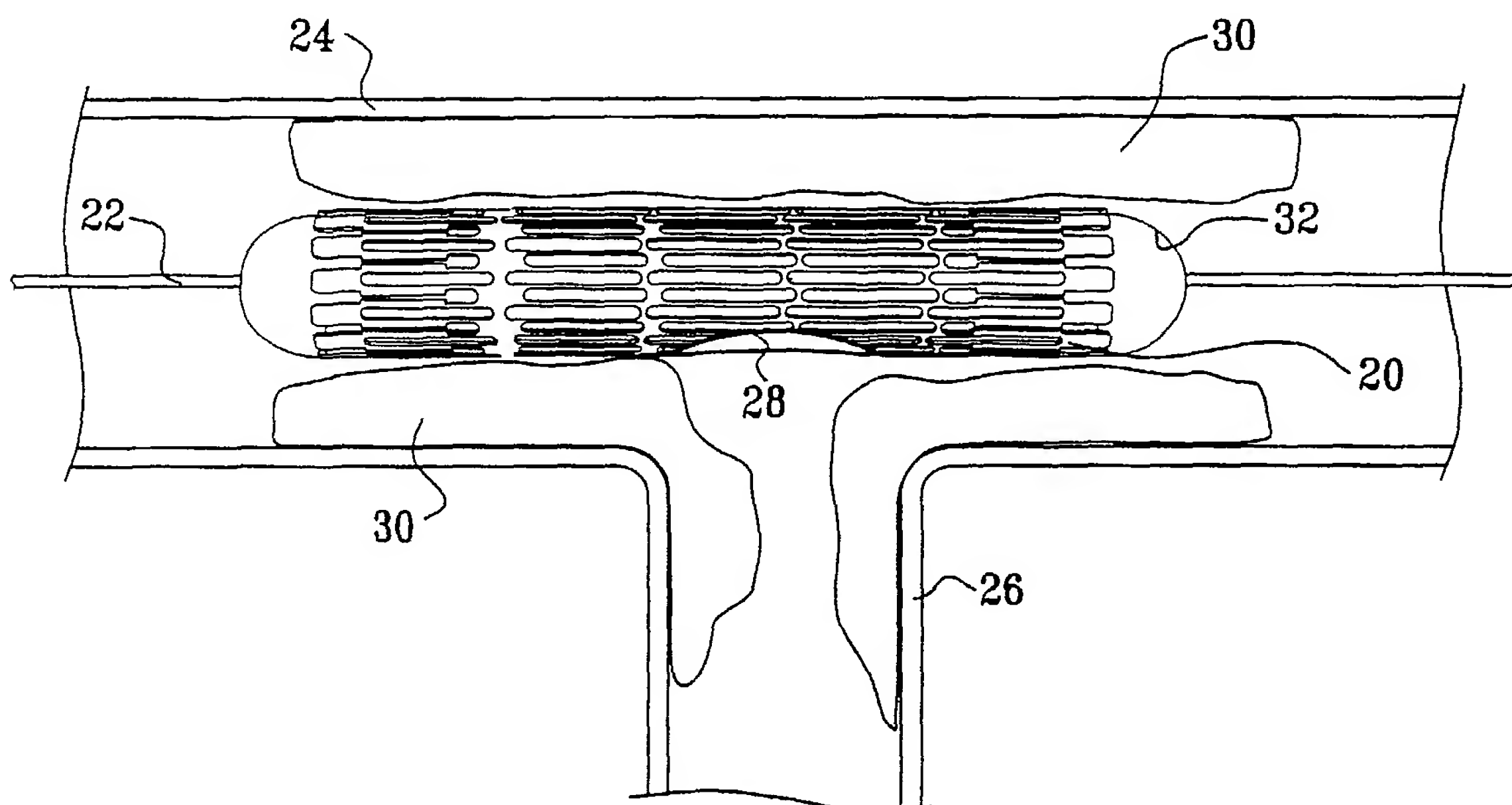
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: TREATMENT OF VASCULAR BIFURCATIONS



(57) Abstract: Apparatus for treatment of a vascular bifurcation, where a first blood vessel (24) meets a second blood vessel (26). The apparatus includes a balloon (40, 90) for deployment at the vascular bifurcation. The balloon includes a first part (42, 94), which has a first inflation characteristic and is adapted to be deployed in the first blood vessel, and a second part (44, 92), which has a second inflation characteristic, different from the first inflation characteristic, and is adapted to be deployed in the second blood vessel.

WO 2005/041810 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
1 September 2005